AMENDMENTS TO THE CLAIMS

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- 1. (Canceled)
- 2. (Currently Amended) An electronic device test apparatus as set forth in claim 1, wherein the identifying means for testing DUTs by pushing their input/output terminals against contact units of a test head, comprising:
 - a moving device configured to pick up and move the DUTs;
- a first imaging device configured to capture an image of a front surface of the DUT on which the input/output terminals are led out before being picked up by the moving device;
- <u>a second imaging device configured to capture an image of a back surface of the DUT on</u> which the input/output terminals are not led out after being picked up by the moving device; and
- a calculating device configured to calculate ealeulates the position and posture of the outside shape of the said one main front surface of the in said DUT before being picked up by the moving device means and the position and posture of the input/output terminals of the said DUT before being picked up by the moving device means from image information captured by the first imaging device means, calculate the position and posture of the outside shape of the back other main surface of the in said DUT after being picked up by the moving device means from image information captured by the second imaging device means, calculates, and calculate the position and posture of the input/output terminals of the DUT after being picked up by the moving device means based on the results of these calculations.
 - 3. (Canceled).

4. (Currently Amended) An electronic device test apparatus as set forth in claim 3, wherein said identifying means for testing DUTs by pushing their input/output terminals against contact units of a test head, comprising:

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a moving device configured to pick up and move the DUTs;

a first imaging device configured to capture an image of a front surface of the DUT on which the input/output terminals are led out before being picked up by the moving device;

a second imaging device configured to capture an image of a back surface of the DUT on which the input/output terminals are not led out after being picked up by the moving device;

a third imaging device configured to capture an image of the back surface of the DUT before being picked up by the moving device; and

a calculating device configured to calculate ealeulates the position and posture of the input/output terminals of the said DUT before being picked up by the said moving device means from the image information captured by the said first imaging device means, calculate calculates the position and posture of the outside shape of the back other main surface of the said DUT before being picked up by the said moving device means from the image information captured by the said third imaging device means, calculate calculates the position and posture of the outside shape of the back other main surface of the at said DUT picked up by the said moving device means from the image information captured by the said second imaging device means, and <u>calculate</u> ealeulates the position and posture of the input/output terminals of the DUT picked up by the said moving device means based on the results of these calculations.

- 5. (Currently Amended) An electronic device test apparatus as set forth in claim 2 1. wherein the said moving device means has a suction device configured to hold means for holding and pick picking up the said DUT by suction.
- 6. (Currently Amended) An electronic device test apparatus as set forth in claim 2 1, wherein the said first imaging device means is provided at the said moving device means.

7. (Currently Amended) An electronic device test apparatus as set forth in claim $\underline{2}$ 1, wherein

said apparatus is further provided with comprising:

a test plate having substantially smooth holding surfaces for holding the <u>back</u> other main surfaces of the DUTs where input/output terminals are not led out, wherein

the said moving device means places the DUTs on the holding surfaces of the test plate so as to relatively correspond to the array of the contact units, and

the input/output terminals of the DUTs electrically contact the corresponding contact units of the test head in the state with the DUTs held by the holding surfaces of the test plate in a positional relationship corresponding to the array of the contact units.

- 8. (Currently Amended) An electronic device test apparatus as set forth in claim 7, wherein holding surfaces of the test plate have suction device configured to hold means for holding the back other main surfaces of the DUTs by suction.
- 9.(Original) An electronic device test apparatus as set forth in claim 7, wherein the holding surfaces of the test plate hold the DUTs in the state with the input/output terminals of the DUTs directed vertically upward.
- 10. (Currently Amended) An electronic device test apparatus as set forth in claim 7, wherein

the test plate has holders provided in a <u>freely movable</u> rockable manner and

the holding surfaces are the top surface of the holders the holders are formed at the holding surfaces of the test plate.

11. (Original) An electronic device test apparatus as set forth in claim 10, wherein the contact units are provided with guide parts in their vicinities and the holders of the test plate are guided by the guide parts.

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12. (Original) An electronic device test apparatus as set forth in claim 11, wherein the

guide parts have at least two guide surfaces extending in mutually nonparallel directions.

13. (Currently Amended) An electronic device test apparatus as set forth in claim 12,

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wherein the moving device means places the DUTs on the holders of the test plate after

correcting the positions and postures of the DUTs so that the distances from the side surfaces of

the holders abutting against the guide surfaces to the DUTs become substantially equal to the

distances from the guide surfaces in the vicinities of the contact units to the contact units.

14. (Currently Amended) An electronic device test apparatus as set forth in claim 12,

further comprising provided with pushing device configured to push means for pushing the

holders of the test plate so that the side surfaces of the holders abut against the guide surfaces.

15. (Currently Amended) An electronic device test apparatus as set forth in claim 14,

wherein the pushing device means have elastic members and are provided at the test plate.

16. (Currently Amended) An electronic device test apparatus as set forth in claim 10,

wherein

the apparatus is further provided with comprising a positioning plate configured to

position for positioning the holders of the test plate, and wherein

the moving device means places the DUTs on the holders of the test plate while

correcting their positions and postures in the state with the positioning plate positioning the

holders of the test plate.

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17. (Currently Amended) An electronic device test apparatus as set forth in claim 16,

wherein

the positioning plate is formed so that the openings in which holders of the test plate can

be inserted correspond to the array of contact units of the test head, and

the moving device means places the DUTs at the holders of the test plate while correcting

their positions and postures in the state with the side surfaces of the holders of the test plate

abutting against the inside walls of the openings of the positioning plate.

18. (Currently Amended) An electronic device test apparatus as set forth in claim 17,

wherein the pushing device means push pushes the holders of the test plate so that the side

surfaces of the holders of the test plate abut against the inside walls of the openings of the

positioning plate.

19. (Currently Amended) An electronic device test apparatus as set forth in claim 1,

wherein the moving device means can move the picked up DUTs in any direction and can rotate

them in any direction.

20. (Canceled)

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21. (Currently Amended) A method of testing DUTs as set forth in claim 20, wherein the identifying step pushing their input/output terminals against contact units of a test head, comprising:

capturing a first image of a front surface of a DUT on which the input/output terminals are led out before the DUT is picked up by a moving device configured to pick up and move DUTs;

capturing a second image of a back surface of a DUT on which the input/output terminals are not led out after being picked up by the moving device;

calculating the position and posture of the outside shape of the front said one main surface of the in said DUT before being picked up by the moving device means and the position and posture of the input/output terminals of the said DUT before being picked up by the moving device means from the first image information captured at the first imaging step;

calculating the position and posture of the outside shape of the <u>back</u> other main surface of the in said DUT after being picked up by the moving <u>device</u> means from <u>the second</u> image information captured at the second imaging step,; and

calculating the position and posture of the input/output terminals of the DUT after being picked up by the moving <u>device</u> means based on the results of <u>these</u> calculations.

22. (Canceled)

23. (Currently Amended) A method of testing DUTs as set forth in claim 22, wherein said identifying step pushing their input/output terminals against contact units of a test

<u>head</u>, comprises:

capturing a first image of a front surface of a DUT on which the input/output terminals are led out before the DUT is picked up by a moving device configured to pick up and move DUTs;

capturing a second image of a back surface of a DUT on which the input/output terminals are not led out after being picked up by the moving device;

capturing a third image of the back surface of the DUT before being picked up by the moving device;

calculating the position and posture of the input/output terminals of <u>the said DUT</u> before being picked up by <u>the said moving device means</u> from the <u>first</u> image <u>information captured at said first imaging step</u>;

calculating the position and posture of the outside shape of the <u>back</u> other main surface of <u>the said</u> DUT before being picked up by <u>the said</u> moving <u>device means</u> from the <u>second</u> image <u>information captured at said third imaging step</u>;

calculating the position and posture of the outside shape of the <u>back</u> other main surface <u>of</u>
<u>the at said</u> DUT picked up by <u>the said</u> moving <u>device</u> means from the <u>third</u> image information
<u>captured at said second imaging step</u>; and

calculating the position and posture of the input/output terminals of the DUT picked up by the said moving device means based on the results of these calculations.